

VOCO – Material Safety Data Sheet (Directive 91/155/EEC)

In Australia, this product is hazardous (criteria of NOHSC) and a dangerous good (ADG Code)
Poisons Schedule – none (Australia's SUSDP)

VOCO Australia, PO Box 209 Osborne Park WA 6917. Tel: 0448 102 804 / Fax: (08) 9440 1874

1	<u>Names of Material, Preparation and Company</u> trade name: Ionoseal manufacturer/supplier VOCO GmbH address: Anton-Flettner-Str. 1-3 D - 27472 Cuxhaven information sector: Scientific Department emergency information: Scientific Department	Tel.: +49-4721/71 9 - 0 Fax: +49-4721/71 9 - 109 Tel.: +49-47 21/71 9 - 0 emergency call: +49-47 21/71 9 - 0															
2	<u>Composition/Details on Components</u> preparation: Mixture of different dimethacrylates, silicates, pigments and catalyst system description: Light-curing radiopaque one-component glass ionomer composite for cavity linings hazardous ingredients:																
	<table border="1"><thead><tr><th>name</th><th>CAS-No.</th><th>content</th><th>danger symbol</th><th>R-categories</th></tr></thead><tbody><tr><td>BIS-GMA</td><td>10-12 %</td><td>1565-94-2</td><td>Xi</td><td>36-38</td></tr><tr><td>UDMA</td><td>8-10 %</td><td>41137-60-4</td><td>Xi</td><td>36-38</td></tr></tbody></table>	name	CAS-No.	content	danger symbol	R-categories	BIS-GMA	10-12 %	1565-94-2	Xi	36-38	UDMA	8-10 %	41137-60-4	Xi	36-38	
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BIS-GMA	10-12 %	1565-94-2	Xi	36-38													
UDMA	8-10 %	41137-60-4	Xi	36-38													
3	<u>Possible Risks</u> designation of risk: special details of risk (R-categories): detrimental effects/symptoms:	Xi, irritant 36-38 Irritant in case of eye, skin and inhalation contact															
4	<u>First-Aid-Measures</u> general information: after inhalation: after skin contact: after eye contact: after swallowing: information for the attending physician:	fresh air, in case of indisposition or nausea contact a doctor rinse thoroughly with plenty of water rinse thoroughly with water, contact a doctor contact immediately a physician material for dental or laboratory use only															
5	<u>Fire Fighting Measures</u> suitable fire extinguishing agents: unsuitable fire extinguishing agents: particular hazards: fire fighting protective equipment:	foam, carbon dioxide, powder fire extinguishers water none no data available															
6	<u>Measures in Case of Unintended Release</u> measures related to persons: environmental measures: procedures of cleaning/uptake additional information:	avoid eye and/or skin contact do not let the material get in contact with sewerage systems take up mechanically, use common absorbents none															
7.	<u>Handling and Storage</u>																
7.1	handling: only by qualified staff in dental offices or dental laboratories instructions for safe handling: instructions on fire and explosion protection	see instructions for use no special measurements are required															
7.2	Storage: demands on storerooms and containers indications and prohibitions of storage together with other materials: further details on storage conditions:	tightly closed at room temperature store in good ventilated rooms and areas do not store together with food keep out of the reach of children															

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8	<u>Exposition Restriction and Personal Protective Equipment</u>			
8.1	additional information on the equipment of technical facilities: none			
8.2	components with limiting values related to place of work:			
	CAS-No.	name	kind	value unit
	additional information: hazards related to place of work are not known.			
8.3	personal protective equipment:	dental office or laboratory working clothes		
	breathing protection	do not breath or inhale vapour or dust		
	hand protection:	use of protective gloves is recommended		
	eye protection:	use of protective glasses is recommended		
	body protection:			
	protective and hygiene measures:	washing hands		
9	<u>Physical and Chemical Properties</u>			
9.1	appearance:	paste		
	form:	pasty		
	colour:	white to slight yellow		
	odour:	methacrylate-like		
9.2	safety data:	tested acc. to:		
	pH upon delivery:	no data available		
	pH of 10g/l H₂O and 20°C:	no data available		
	change of state:	no data available		
	boiling point/area:	no data available °C		
	melting point/area:	no data available °C		
	flash point:	no data available °C		
	inflammability:	no data available		
	ignition temperature:	no data available °C		
	autoignition:	no data available		
	fire advancing properties:	no data available		
	explosion hazards:	no data available		
	explosion limits: LEL:	UEL: no data available		
	vapour pressure (°C)	no data available		
	density (°C)	no data available hPa		
	bulk density:	no data available		
	solubility in water (20°C) (°C):	no data available mg/l		
	in (°C)	no data available mg/l		
	solubility in fat:	no data available		
	distribution coefficient n-octanol/water:	no data available		
	viscosity (°C):	no data available		
	solvent separation test:	no data available %		
	solvent content:	no data available %		
9.3	further particulars:	none		
10	<u>Stability and Reactivity</u>			
	conditions to be avoided:	light exposition, heat		
	materials to be avoided:	radical initiators, e. g. peroxides		
	hazardous products of decomposition:	HCN, cyanides		
	further particulars:	none		

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11. Toxicological Data						
11.1 toxicological Test: no data available						
acute toxicity: no data available						
LD ₅₀ /LC ₅₀ :	component	kind	value	species	method of determination	
specific symptoms in animal test:			no data available			
irritant effect/corrosive action:			no data available			
sensitization:			no data available			
effects of repeated exposure or overexposure (subacute or chronic toxicity):			no data available			
carcinogenic and mutagenic effects hazardous to reproduction:			no data available			
other particulars:			no data available			
11.2 practical experience: no data available						
observations relevant to classifications: no data available						
other observations: no data available						
11.3 general remarks: during long-standing product application risks have not become known.						
12 Ecological Data						
12.1 information on elimination: no data available						
procedure	analytic method	degree of elimination		classification		
evaluation: no data available						
additional information: no data available						
12.2 behaviour in environmental compartments: no data available						
mobility and bioaccumulation potential: no data available						
additional information: none						
12.3 environmental toxic effects: no data available						
aquatic toxicity: no data available						
organism	test period	test method	result	assessment		
behaviour in sewage plants: no data available						
respiratory inhibition of local vitalised sludge: no data available						
12.4 additional information: none						
CSB-value: no data available			mg/g			
BSB ₅ -value: no data available			mg/g			
AOX-indication: no data available						
contains the following heavy metals and compounds (corresponding to guideline 76/464/EWG) according to preparation formula: none						
general information: none						
13 Disposal Instructions						
13.1 product: obey local and governmental regulations						
recommendation:	waste name		accountability			
waste category						
13.2 uncleaned packing material: obey local and governmental regulations						
recommendation: obey local and governmental regulations						
cleaning agents: common cleansing agents for the laboratory						

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14	<u>Particulars on Transport</u>		
14.1	land carriage:		
	ADR/RID/GGVS/GGVE-class:	figure/letter: risk no.:	material no.:
	warning label:		
	designation of goods:		
	remarks:		
14.2	inland transport by ship:		
	ADN/ADNR-class:	figure/letter:	category:
	designation of goods:		
	remarks:		
14.3	see transport:		
	IMDG/GGV sea class:	UN-No.:	PG:
	EMS:	MFAG:	
	marine pollutant:		
	correct technical name:		
	remarks:		
14.4	air transport:		
	ICAO/IATA-class:	UN/ID-No.:	PG:
	correct technical name:		
	remarks:		
14.5	further particulars: No hazardous goods within the meaning of transport regulations		
15	<u>Regulation</u>		
15.1	marking: acc. to governmental regulations concerning declaration of dangerous chemicals no marking is prescribed		
	danger symbol and designation: none		
	contains:		
	R-categories:	none	
	S-categories:	none	
	special marking of particular preparations: none		
15.2	national regulations: acc. to article 10 of Directive 66/379 EEC and 67/548 EEC		
	restrictions of employment:	none	
	instructions in case of interference:	none	
	classification acc. VbF:	not applicable	
	technical instruction air:	not applicable	
	water pollution class:	no data available	
	other regulations, restrictions and prohibitions: Directive 91/155 EEC; medical product acc. to 93/42 EEC (medical products).		
16	<u>Other Particulars</u>		
	All information above has been given according to our present state of knowledge. It has been compiled to the best of our knowledge. The above -mentioned data do not represent a guarantee on characteristics. They only describe the safety requirements with regard to our products. They do not represent an assurance of product characteristics in the meaning of guarantees.		